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### 1. [A152-090: Linear Inflow Model Synthesis for Advanced Rotorcraft Configurations](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current linear rotorcraft flight dynamics models are dependent on finite-state inflow theory based on potential flow modeling at the rotor plane [1]. These inflow models have few parameters and are readily available in linear state-space form, making them easy to implement in flight dynamic models for stability assessment and control system design studies. These types of models have been developed ...

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### 2. [SB152-001: Cell Free Platforms for Prototyping and Biomanufacturing](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical need for capabilities that will enable DoD to leverage the unique and powerful attributes of biology to solve challenges associated with production of new materials, novel capabilities, fuels, and medicines. This topic is focused on improving the utility of cell-free systems as a platform technology to address key technical hurdles associated with current practices in engineeri ...

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### 3. [A152-091: Innovative Motion Measurement Package \(M2P\) for Guided and Un-Guided Munitions](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Performance of future munitions are dependent upon the accurate estimation of the airframe's angular motion, acceleration about each axis, velocity and roll position relative to up. The M2P will reside within the munition airframe and measure actual projectile/airframe properties, which can be used by the munitions guidance package and/or fuzing system. The M2P technology can utilize conventiona ...

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### 4. [A152-092: Enhanced Analysis for Pulsed Voltammetry Evaluation Tool / System for Improved Power Systems](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

In order to develop new high-performance batteries, fuel cells, and sensors, the electrochemical behavior of materials and devices need to be quantitatively assessed. This assessment (models and systems characterization) will help identify the performance of electrochemical systems leading to the development of significantly improved power sources. New electrochemical analysis tools will enable be ...

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**5. [A152-093: Techniques for Wire Recognition using mmW](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Rotorcraft landing and takeoff is dangerous in environments where obstacles, particularly wires or power lines exist, and pilot vision is degraded by obscurants such as dust, smoke, fog, rain and snow. This SBIR would focus on a radar solution to detecting wires and power cables when landing in a visually degraded environment. Existing data for wires and power lines with millimeter wave radars pro ...

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**6. [SB152-002: Cortical Modem Systems Integration and Packaging](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

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**7. [A152-095: Avian Vision Processing](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Birds of prey, also known as raptors, are birds that hunt or feed on other animals. They are characterized by keen vision that allows them to detect prey during flight. Since vision is the most important sense for birds, and good eyesight is essential for safe flight, this group has a number of adaptations which give visual acuity superior to that of other vertebrate groups. The objective of this ...

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**8. [A152-096: Advanced Coordinated Control, Formation Flying for Nano-Satellite Applications](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The focus and priority of this topic is seeking innovative space-based remote sensor capabilities supporting all-weather, day-night imaging capability. Preliminary research assessments highlight the availability of next generation device/component technologies and outline novel approaches for creating flotillas, swarms, and/or formations of nano-satellites with multi-faceted functions and sensor c ...

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**9. [SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz – 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

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**10. [SB152-004: Many-Core Acceleration of Common Graph Programming Frameworks](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Today there is a DoD need for graph analytics capabilities, which are critical for a large range of application domains with a vital impact on both national security and the national economy, including, among others: counter-terrorism; fraud detection; drug discovery; cyber-security; social media; logistics and supply chains; e-commerce, etc. Widely used graph development frameworks have enabled o ...

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